

UTILITY PATENT APPLICATION TRANSMITTAL

(Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.
414-00

Total Pages in this Submission

TO THE ASSISTANT COMMISSIONER FOR PATENTSBox Patent Application
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

SLIDE LATCH

and invented by:

Gert BERG

jc878 U.S. PTO
09/619510
07/19/00

If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:
☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: _____

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Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having ten (10) pages and including the following:
 - a. ☒ Descriptive Title of the Invention
 - b. ☐ Cross References to Related Applications (if applicable)
 - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
 - d. ☐ Reference to Microfiche Appendix (if applicable)
 - e. ☒ Background of the Invention
 - f. ☒ Brief Summary of the Invention
 - g. ☒ Brief Description of the Drawings (if drawings filed)
 - h. ☒ Detailed Description
 - i. ☒ Claim(s) as Classified Below
 - j. ☒ Abstract of the Disclosure

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Application Elements (Continued)

3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
- a. ☐ Formal Number of Sheets _____
- b. ☒ Informal Number of Sheets Three (3)
4. ☒ Oath or Declaration
- a. ☐ Newly executed *(original or copy)* ☒ Unexecuted
- b. ☐ Copy from a prior application (37 CFR 1.63(d)) *(for continuation/divisional application only)*
- c. ☒ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application,
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☐ Incorporation By Reference *(usable if Box 4b is checked)*
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied
under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.
6. ☐ Computer Program in Microfiche *(Appendix)*
7. ☐ Nucleotide and/or Amino Acid Sequence Submission *(if applicable, all must be included)*
- a. ☐ Paper Copy
- b. ☐ Computer Readable Copy *(identical to computer copy)*
- c. ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

8. ☐ Assignment Papers *(cover sheet & document(s))*
9. ☐ 37 CFR 3.73(B) Statement *(when there is an assignee)*
10. ☐ English Translation Document *(if applicable)*
11. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
12. ☐ Preliminary Amendment
13. ☒ Acknowledgment postcard
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail *(Specify Label No.):* EK748540397US

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Accompanying Application Parts (Continued)

15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*

16. ☐ Additional Enclosures *(please identify below):*

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	12	- 20 =	0	x \$18.00	\$0.00
Indep. Claims	1	- 3 =	0	x \$78.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
OTHER FEE (specify purpose) _____					\$0.00
TOTAL FILING FEE					\$690.00

- ☒ A check in the amount of \$690.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 16-0750 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
- ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Alex R. Sluzas

Signature

Alex R. Sluzas
Reg. No. 28,669
Paul and Paul
2900 Two Thousand Market Street
Philadelphia, PA 19103

Dated: July 19, 2000

cc: Order No. 3649

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re appln of : Gert BERG
Serial No.: Not yet assigned
Filed: Herewith
For: SLIDE LATCH
Atty Doc.: 414-00

"EXPRESS MAIL" MAILING LABEL

NO: EK748540397US

DATE OF DEPOSIT July 19, 2000

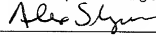
I hereby certify that this paper or fee and the papers indicated as being transmitted therewith are being deposited with the United States Postal Service as "Express Mail Post Office to Addressee" in an envelope addressed to:

Commissioner of Patents

Washington, DC. 20231.

Alex R. Sluzas

(type or print name of person making deposit)



SIGNATURE

EXPRESS MAIL COVER LETTER

Box Patent Application
Commissioner of Patents
Washington, D.C. 20231

Dear Sir:

Enclosed and attached hereto are the following documents for filing in the United States

Patent and Trademark Office:

- (1) Utility Patent Application Transmittal (Large Entity) Form (3 pages - in duplicate);
- (2) Specification (10 pages);
- (3) Declaration and Power of Attorney (3 pages);
- (4) Three (3) sheets of informal drawings (in triplicate);
- (5) Check for \$690 in payment of the total application filing fee;
- (6) This Express Mail Cover Letter (in duplicate), and
- (7) Acknowledgment postcard to be date-stamped and returned to Paul and Paul.

The Commissioner is hereby authorized to charge any additional fees associated with this communication, or credit any overpayment, to Paul and Paul Deposit Account No. 16-0750, Order No. 3649.

Respectfully submitted,



July 19, 2000

Alex R. Sluzas
Reg. No. 28,669

Paul & Paul
2900 Two Thousand Market St.
Philadelphia, PA 19103
(215) 568-4900

Order No.: 3649

SLIDE LATCH**BACKGROUND OF THE INVENTION**1. Field Of The Invention

5 The present invention relates generally to latching devices, and more particularly to systems for latching hinged doors or panels and the like.

2. Background Of The Invention

Various types of latching devices for fastening doors, panels and the like are known.

10 Door-mounted "slam" latches employ a camming surface on the end of a sliding-bolt element that cooperates with a striker on the door frame to cause a bolt action to secure the door when it is closed against the frame. Such latches are activated to secure the door when the door is merely pushed shut or slammed. However, to open the door, operation of the latch mechanism is required to release
15 the latch. In some slam latches, as the door is being closed, the bolt is urged against a spring force by the action of a camming surface cooperating with the striker to slide into the latch housing. Once the camming surface has passed the door frame inner surface, the spring force then urges the bolt element to engage behind the door frame, or to engage a keeper mounted on the door frame. In order to open the door,
20 the bolt is manually operated, usually through a grip, to withdraw the bolt from engagement with the keeper.

Examples of prior art slam latches are disclosed in U.S. Patents 3,841,674, 3,850,464, 5,482,333 and 5,628,634.

25 The spring force for such latches can be provided through separate spring elements, such as a torsion bar spring (Figs. 8-9, U.S. Patent 3,841,674), a torsion coil spring (Figs. 11-13, U.S. Patent 3,841,674), or a compression coil spring (Fig. 13, U.S. Patent 3,841,674). Alternatively, the spring element can be integrally molded with a latch body made from an appropriate plastic or polymeric material (Figs. 1-7, U.S. Patent 3,841,674; U.S. Patent 5,842,333; Fig. 6A - 6E, U.S. Patent 5,628,534).

30 Slam latches with integrally molded spring elements have a number of advantages over slam latches that use separate metal springs. First, slam latches with integrally molded spring elements tend to be less expensive because fewer parts are required to be made and assembled for each latch. Further, during manufacture metal springs may become embrittled and thus subject to breakage.

On the other hand, prior art latches with integrally molded spring elements may not have the same life expectancy as those that use separate metal springs. Elements formed from polymeric materials that are subjected to cyclic stresses, such as integrally molded spring elements in slam latches, sometimes fail at stress levels far below their yield stress, due to fatigue failure.

Prior slam latches have employed generally planar integrally molded spring elements. Examples include those shown in Figs. 1-7 of U.S. Patent 3,850,464, and Figs. 6B-6E of U.S. Patent 5,628,534. A variation is disclosed in U.S. Patent 5,482,333, in which the spring member 5 includes two pairs of integrally hinged generally planar elements, molded from a suitable resin, such as polypropylene, in a relaxed configuration. In each of these designs, when the latch is operated stresses are generated primarily proximate the portion of the latch where the spring extends from the latch body.

There is a need for a simple, inexpensive slam latch having an integrally molded spring element that resists cyclic stresses and fatigue failure.

SUMMARY OF THE INVENTION

The present invention provides a latch of the sliding-action slam type for installation in an opening in a door or panel for releasably retaining the panel relative to a frame. The latch is particularly useful for securing carpeted panels, such as are found in automotive interiors.

The latch is adapted for installation in a generally rectangular opening or aperture formed in the panel near the edge of the door panel.

The latch includes a generally flat, rectangular plate which is positioned above the door panel when the latch is mounted in the opening. In a presently preferred embodiment, the plate extends beyond the edge of the panel and over the top of the frame, thereby serving to prevent inward movement of the panel beneath the frame.

The latch also includes a generally box-like latch body that extends under the plate and through the opening in the panel when the latch is mounted in the panel. The latch body forms a central well, and the well extends through a generally rectangular central opening that is formed in the plate.

The latch also comprises an actuator extending from the latch body for releasably engaging the frame. The actuator is accessible through the central well. The actuator includes a flexible portion and a rigid portion. The flexible portion comprises an integrally formed spring means for biasing the actuator forward. When the latch is operated, the actuator travels from a closed position to an open position.

Pushing the actuator backward against the bias of the spring means operates the latch. The panel can then be swung or lifted open. When the actuator is released, the spring means restores the actuator to the closed position. Preferably, the actuator includes a middle section adapted for engagement by the operator. It is also preferred that the rigid portion of the actuator include a pawl for engaging the underside of the frame in the closed position. It is likewise preferred that the pawl include at least one angled surface adapted for engaging the edge of the frame so as to force the actuator backward against the spring means when the door or panel is slammed shut.

Preferably, the latch also includes camming means for controlling the travel of the actuator when the actuator is operated. The camming means preferably includes a first and a second opposed side wall of the latch body with respective first and second apertures formed therein. The camming means preferably also includes a first and second pin extending outwardly from the actuator adapted for travel within the respective first and second aperture when the latch is operated. Preferably, the latch is formed from a polymeric material resistant to cyclic loading, such as a synthetic acetal resin. This extends the duty life of the integral spring and thus the latch.

Lock tabs are formed on the outside of the sides of the latch body and are adapted to be compressed during installation of the latch. When the latch is installed by pushing the latch body into the opening in the panel, the lock tabs are first compressed by contact with the edge of the opening. Just before the bottom of the plate contacts the upper surface of the panel, the tabs spring outwardly, locking the latch in the panel. The desired positioning of the lock tabs depends on the effective thickness of the panel. For example, when the panel is carpeted, the effective thickness depends on the type and depth of the carpet pile.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is perspective view of a slide latch of the present invention, the slide latch being shown mounted in a panel and in a latch position securing the panel to a frame, the panel and frame being shown in section, the perspective being taken from above.

Fig. 2 is a perspective view of the slide latch of Fig. 1, the perspective being taken from below, the latch being shown in the closed position.

Fig. 3 is a side elevational view of the slide latch of Fig. 1, the latch being shown in the open position.

Fig. 4 is a sectional view of the slide latch of Fig. 1, the section being taken along the line 4-4 of Fig. 2.

Fig. 5 is a perspective view of the slide latch of Fig. 1 as seen from above and to the front of the right side of the latch, the panel and frame being omitted to reveal the latch.

Fig. 6 is a side elevational sectional view of the slide latch of Fig. 1, the section being taken along the line 6-6 of Fig. 5.

Fig. 7 is a side elevational view of the slide latch of Fig. 1, showing the latch in the open position and the panel being opened.

Fig. 8 is a perspective view of the slide latch of Fig. 1 showing the slide latch being mounted in the panel opening.

Fig. 9 is a side elevational sectional view of the slide latch of Fig. 1, the slide latch being shown in an open position with the spring means compressed and the front portion of the slide latch being disengaged from the frame so that the panel can be opened, the slide latch being sectioned to emphasize the operation of the actuator.

DETAILED DESCRIPTION

Referring now to the drawings in detail, wherein like reference numerals indicate like elements throughout the several views, there is shown in Fig. 1 a perspective view of a slide latch 10 of the present invention, the slide latch 10 being shown mounted in a panel or door 160, and in a closed or latched position securing the panel 160 to a frame 150, the panel 160 and frame 150 being shown in a fragmentary section thereof. The latch 10 is preferably formed as a single component by a molding process from a polymeric material having substantial resistance to fatigue from cyclic loading. A particularly preferred polymeric material is acetal resin, available as Delrin® acetal resin from E.I. du Pont de Nemours, Wilmington, DE.

The latch 10 includes a latch body 20 and a generally rectangular plate 30 from which the latch body 20 downwardly extends. A central, generally rectangular well 22 extends through the plate 30 and into the latch body 20. The latch 10 also includes an actuator 50 accessible and operable through the well 22.

As shown in the side perspective view of Fig. 2, the latch body 20 includes a pair of opposed, generally planar and parallel side walls 24, 26, and a rear wall 28. As best seen in the sectional perspective view of Fig. 6, the actuator 50 is attached to the underside of the plate 30 and the side walls 26 (only one of which is visible in Fig.

6) of latch body 20 proximate the rear wall 28 of the latch body 20. However the actuator 50 is otherwise not attached to the side walls 24, 26 or the plate 30, so that the actuator 50 is free to move as described below.

The actuator 50 is in the form of a continuous folded sheet and includes a plurality of sections variously provided with side walls for functional purposes as described below.

The actuator 50 includes a front section or pawl 60 extending from the front of the latch body 20. As shown in Fig. 2, the pawl 60 contacts the underside of the frame 150 when the latch 10 is in the closed position to prevent outward rotation or travel of the panel 160 in which the latch 10 is mounted away from the frame 150. Preferably, the plate 30 of the latch 10 extends beyond the edge 152 of the frame 150 (Fig. 1) and over the frame 150 when the panel 160 is secured, so that the panel 160 extends between the underside of the plate 30 and the pawl 60. When the actuator 50 is operated to move the actuator 50 from the closed position (Fig. 2) to an open position (Fig. 3), the pawl 60 is retracted rearward and downward so that it no longer extends under and adjacent the frame 150, thus permitting the panel 160 to be opened, as shown in the side perspective view of Fig. 7.

As best seen in Fig. 6, the actuator 50 includes the pawl 60, as well as a middle section 70 extending from the rear of the pawl 60, and a rear section 110, extending from the rear of the middle section 70.

As best seen in Figs. 4-6, the pawl 60 includes a pair of opposed, spaced, generally trapezoidal side walls 64, 66, a generally rectangular, horizontal top wall 62 extending between the side walls 64, 66 at their respective upper ends, and a generally rectangular rear wall 68 extending between the side walls 64, 66 proximate their respective rear portions and extending from the rear of the top wall 62. This construction is believed to provide a strong, rigid, lightweight structure for the pawl 60. The front surfaces of the side walls 64, 66 are sloped so that when the panel is closed or slammed shut, the side walls 64, 66 of the pawl 60 contact the edge of the frame 150, and the actuator 50 is pushed backward, thereby permitting the panel or door 160 to close.

The middle section 70 of the actuator 50 (best seen in Figs. 1, 4 and 6), extends continuously from the front section or pawl 60. The middle section includes an upwardly extending first or forward pleat 80 having an upwardly and rearwardly sloping front wall 82 extending continuously from the rear wall 68 of the pawl 60, a top or upper section 84 positioned approximately flush with the upper surface of the plate 30, and a downwardly and rearwardly sloping rear wall 86 which terminates in a

section that is approximately horizontal. The forward pleat 80 also includes a pair of opposed, spaced generally parallel side walls 88, 90 extending from and continuously formed with the respective edges of the front wall 82, top section 84, and rear wall 86, thus providing rigidity to the forward pleat 80. The pawl 60 and forward pleat 80 of the middle section 70 thus constitute two rigid portions of the actuator 50.

Extending from either side wall 88, 90 of the forward pleat 80 are a pair of generally cylindrical guide pins 92, 94 which are positioned to extend into a pair of corresponding generally teardrop-shaped apertures 34, 36 formed in the side walls 24, 26 of the latch body 20. The guide pins 92, 94 and respective apertures 34, 36 comprise camming means controlling the travel of the actuator 50 as described below.

The middle section 70 of the actuator 50 further comprises a rear pleat 100 having a front wall 102 which extends continuously rearwardly and upwardly from the rear wall 86 of the forward pleat 80, a top or upper section 104 positioned approximately flush with the upper surface of the plate 30, and a downwardly and slightly rearwardly sloping rear wall 106.

The rear wall 86 of the forward pleat 80 and the front wall 102 of the rear pleat 100 together form a concavity 96 shaped to receive the finger of an operator.

The actuator 50 also includes a rear section 110 comprising a generally flat and rearwardly extending bottom wall 112 extending continuously from the bottom of the rear wall 106 of the rear pleat 100, and an upwardly extending rear wall 114 extending from the back of the bottom wall 112 up to the underside of the plate 30 proximate the rear edge of the well 22.

The rear pleat 100 and rear section 110 together comprise a flexible spring means for biasing the actuator 50 and pawl 60 forward.

As best seen in Figs. 2 and 6, in the relaxed or normal configuration the pawl 60 is positioned so that the top wall 62 of the pawl 60 and the underside of the forward end of the plate 30 are generally parallel and spaced from one another by slightly more than the thickness of the frame 150, thereby securing the panel 160 in a closed and locked position. To operate the latch 10 to open the panel 160 the operator places a finger in the concavity 96 and pushes downwardly and rearwardly against the front wall 102 of the rear pleat 100. The travel of the rigid forward portion of the actuator 50, namely the front pleat 80 and the pawl 50 is limited and defined by the camming action of the pins 92, 94 pressing against the respective edges of the apertures 34, 36 formed in the side walls 24, 26 of the latch body 20.

Simultaneously, the flexible rear portion of the actuator 50, namely the rear pleat 100

and the rear section 110 are compressed, as best seen in Fig. 9. When the rigid forward portion of the actuator 50 has reached the ultimate limit of its rearward travel, such as depicted in Fig. 3, the pawl 60 extends no further forward than the edge 164 of the panel 160, thereby permitting the operator to pull the panel open, such as depicted in Fig. 7. When the operator removes her finger from the concavity 96, the spring means forces the rigid forward section of the actuator 50 forward. To close and lock the panel 160, the operator can again manually retract the actuator 50 and push the panel 160 closed, or, in the alternative, can simply slam the panel 160 shut. When the pawl encounters the edge 162 of the door frame 150 as the panel is being shut, the contact by the outer edges of the side walls 64, 66 of the pawl 60 with the edge 152 of the frame 150 forces the rigid portion of the actuator 50 backward against the spring means. When the pawl 60 passes below the underside of the frame 150, the spring means forces the rigid portion of the actuator 50 forward to position the pawl 60 once again below the frame 150.

As best seen in the perspective views of Figs. 2 and 5, the latch body 20 includes a plurality of lock tabs 40 formed in the side walls 24, 26. A generally rectangular aperture 162 (Fig.2) is formed in the panel 160 proximate the edge thereof for mounting the latch 10 of the present invention. The latch 10 is installed by placing the pawl 60 under the forward edge of the mounting aperture 162 and pressing down. As the latch 10 is pressed down, the lock tabs 40 are initially pressed inwardly by the edge of the mounting aperture 162, and finally snap outwardly to lock the latch 10 in the mounting aperture 162.

The latch of the present invention may be adapted to be engaged by the operator in a different manner. For example, instead of a well formed in the latch body, the latch can include a post or button extending up above the upper surface of the flange to be grasped by the operator (not shown).

Various other modifications can be made in the details of the various embodiments of the apparatus of the present invention, all within the scope and spirit of the invention and defined by the appended claims.

CLAIMS

I claim:

1. A latch of the sliding-action slam type for installation in an opening in a door panel for releasably retaining the door panel relative to a frame, the latch being moveable between a closed position and an open position when installed in the opening in the door panel, the latch comprising
 - a) a plate, the plate being positioned above the door panel when the latch is mounted in the opening;
 - b) a latch body extending under the plate and through the opening in the panel when the latch is mounted in the panel, the latch body forming a central well, the well extending through the plate, and
 - c) an actuator extending from the latch body for releasably engaging the frame; the actuator being accessible through the central well, the actuator including an integrally formed spring means for biasing the actuator, the actuator travelling from a closed to an open position when the latch is operated against the bias of the spring means.
2. A latch according to claim 1 wherein the plate extends beyond the edge of the door and over the frame when the latch is mounted in the opening and the door is closed, the latch preventing inward travel of the door through the frame.
3. A latch according to claim 1 further comprising camming means for controlling the travel of the actuator.
4. A latch according to claim 3 wherein the latch body includes a first and a second opposed side wall, the first and second side wall having a respective first and second aperture formed therein, the actuator having a first and second pin extending outwardly therefrom for travel within the respective first and second aperture when the latch is operated, the apertures and pins comprising camming means controlling the travel of the actuator when the latch is operated.
5. A latch according to claim 1 wherein the actuator comprises a pawl for engaging the underside of the frame in the closed position.
6. A latch according to claim 5 wherein the pawl includes at least one angled surface for engaging the edge of the frame so that the actuator is pushed back against the spring bias when the panel is slammed shut.
7. A latch according to claim 1 wherein the actuator includes a rear section extending from the back of the latch,

a middle section adapted for movement by an operator, the middle section extending from the rear section,

and a pawl for engaging the underside of the frame in the closed position, the pawl extending from the middle section.

8. A latch according to claim 7 wherein the actuator has the form of a continuous folded sheet.

9. A latch according to claim 8 wherein the middle section comprises a rear pleat and a forward pleat, the rear pleat and the forward pleat each comprising a pair of generally planar walls extending downwardly from a respective top portion, each respective top portion being positioned in the plane of the plate when the actuator is in the closed position.

10. A latch according to claim 9 wherein the rear pleat is flexible and the forward pleat is rigid.

11. A latch according to claim 10 wherein the spring means comprises the rear pleat and the rear section.

12. A latch according to claim 1 wherein the latch is formed from a polymeric material resistant to cyclic loading.

ABSTRACT OF THE DISCLOSURE

A sliding-action slam latch includes an integrally molded actuator having a rigid portion and an flexible portion, the flexible portion serving to bias the actuator closed. Pins extending from the rigid portion of the actuator contact guide surfaces on the latch body to limit travel of the actuator.

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Figure 1

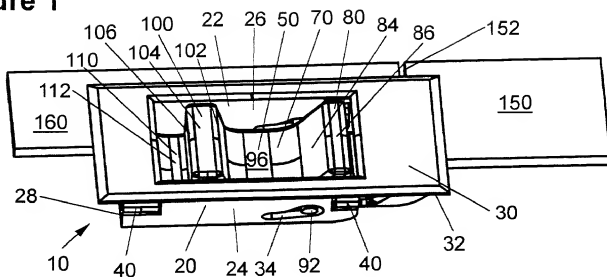


Figure 2

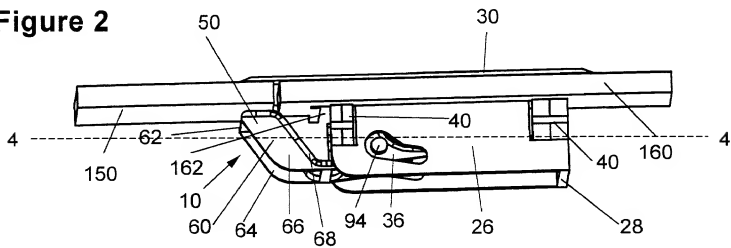


Figure 3

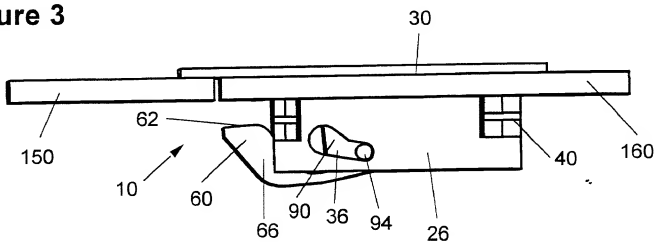


Figure 4

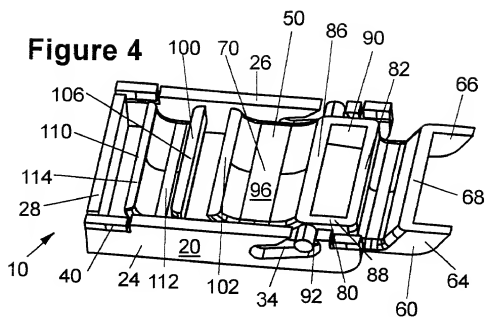


Figure 5

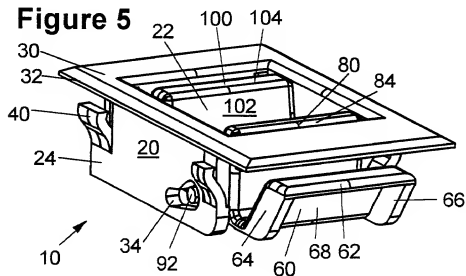


Figure 6

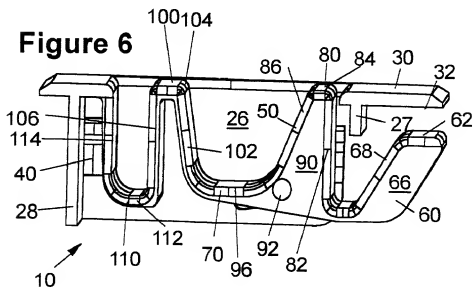


Figure 7

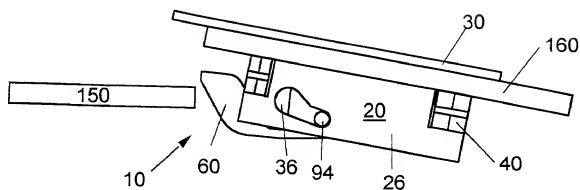


Figure 8

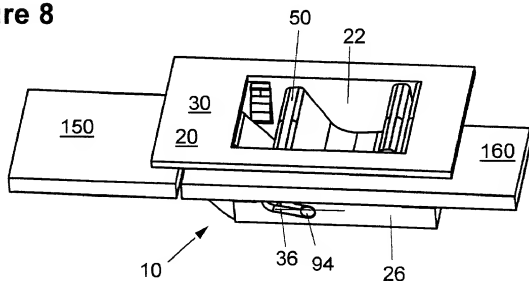
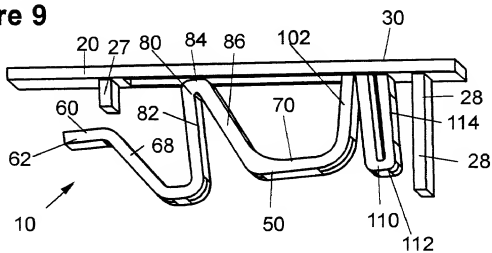


Figure 9



DECLARATION AND POWER OF ATTORNEY

As the below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled SLIDE LATCH, the specification of which is attached hereto.

I hereby state that I have reviewed and understand the contents of the above-identified patent specification, including the claim, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. § 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International Application(s) designating at least one country other than the United States of America listed below and I have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International Application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed. Such applications have been filed as follows:

COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 C.F.R. 119
NONE			<input type="checkbox"/> YES <input type="checkbox"/> NO

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

APPLICATION NUMBER	DATE OF FILING (day, month, year)
60/144,801	July 21, 1999

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT International application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35 United States Code, § 112, first paragraph, I acknowledge the duty to disclose information which is material to the examination of this application as defined in Title 37, Code of Federal Regulations, § 1.56(a), namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, which occurred between the filing date of the prior application(s) and the national or PCT International filing date of this application.

PRIOR UNITED STATES APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE UNITED STATES FOR BENEFIT UNDER 35 U.S.C. § 120					
U.S. APPLICATIONS			STATUS (check one)		
U.S. Application No.	U.S. filing date		Patented	Pending	Abandoned
PCT Appln. No.	PCT filing date	U.S. Serial No. assigned			

I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business with the United States Patent and Trademark Office in connection with this therewith:

	Reg. No.		Reg. No.
James C. McConnon	18,030	Alex R. Sluzas	28,669
John F. McNulty	23,028	Ourmazed S. Ojan	38,065
Mohammad S. Rahman	43,029	William F. Lang, IV	41,928

Address all telephone calls to Alex Sluzas at Paul & Paul at 215-568-4900.

Address all correspondence to Alex Sluzas, Paul & Paul, 2900 Two Thousand Market Street, Philadelphia, PA 19103.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both,

under Section 1001 of Title 18 or the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of inventor:	Gert Berg
Inventor's signature:	_____
Date:	_____
Residence:	Gloustershire, United Kingdom
Citizenship:	GERMANY
Post Office Address	c/o Southco Inc. 210 N. Brinton Lake Road Concordville, PA 19331